

## The Knowledge Bank at The Ohio State University

### Ohio State Engineer

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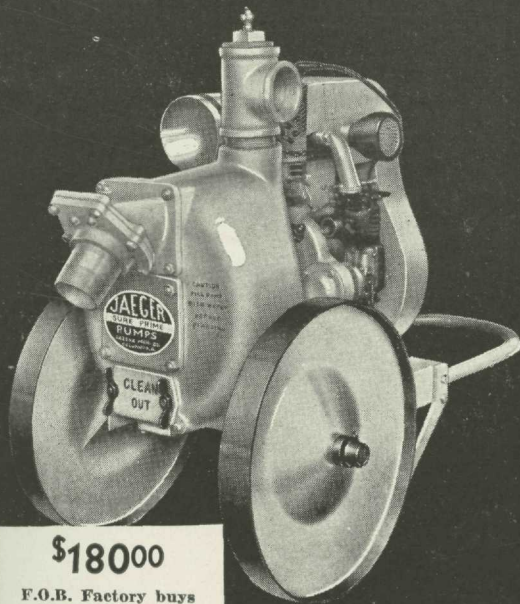
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# JAEGER SURE PRIME PUMPS



**\$18000**

F.O.B. Factory buys  
10,000 Gal. Size  
Complete.

**BUILT IN 2", 3", 4", 6" SIZES**

America's fastest selling line of contractors' pumps.  
Write for new catalog, new low prices.

**THE JAEGER MACHINE CO.** Dublin Ave.  
Columbus, O.

## The Mt. Vernon Bridge Company

*Designers, Fabricators and Erectors of*

**STRUCTURAL STEEL**

of

**EVERY DESCRIPTION**

Blast Furnaces

Skip Bridges

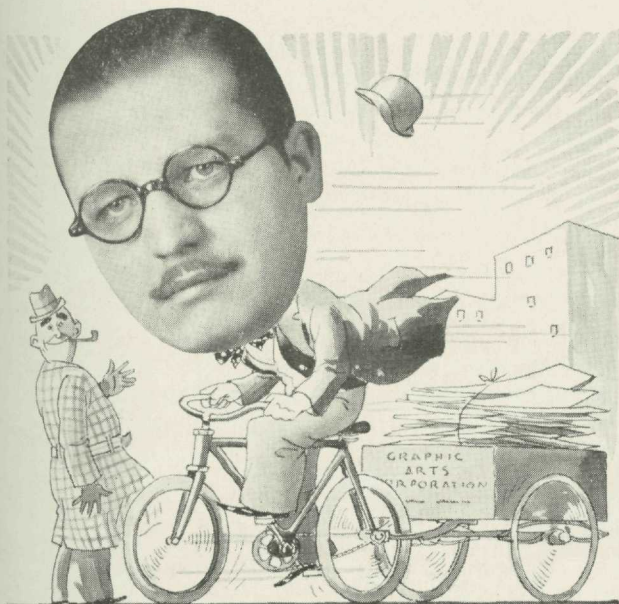
Ore and Coke Bins

Railway and Highway Bridges

Viaducts and Trestles

Mills and Factory Buildings

**MT. VERNON - - OHIO**



**SCORE ANOTHER ONE!**

... With business increasing by leaps and bounds, **Mr. Armand Golay**, of *Graphic Arts Corporation*, has found it necessary to equip his bicycle with a trailer for the purpose of carrying away large bundles of drawings and photographs for reproduction.

## BURR-PATTERSON AND AULD CO.

1808 North High Street

Columbus, Ohio

*Fraternity Jewelers*

to

Theta Xi

Triangle

Alpha Chi Sigma

Alpha Rho Chi

Engineer's Council

Texnikoi

Eta Kappa Nu

Sigma Xi

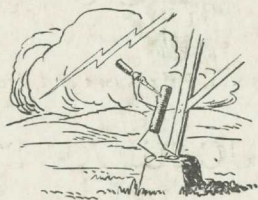
Quadrangle Jesters

**BARTON KAGEY, Manager**

O. S. U. - 1923



# G-E Campus News



## LIGHTNING SPIES

How many amperes are there in a bolt of lightning? Well, there are too many for comfort, and most of us are willing to let the matter rest there. General Electric engineers, however, were very much interested in knowing, so that they could better protect electric transmission lines and equipment from damage by lightning. And last summer they sent out over 2000 little spies. These spies are metal cartridges, hardly an inch long, which were placed on the legs of transmission towers on lines in Pennsylvania and Virginia. This territory is apparently one of lightning's favorite hangouts. When the surge from a lightning bolt passes through a transmission tower, the little spy is magnetized in proportion to the highest current in the bolt. Linemen carry the magnetized spies back to headquarters, where, when placed in a "surge crest ammeter," they tell their story. Many scores of the little spies have reported, and their stories are really shocking. The highest reading has been 60,000 amperes.

Clifford M. Foust, Carnegie Tech, '21, and Hans P. Kuehni, Ecole Polytechnique Fédérale, Zürich, '20, of our General Engineering Laboratory force, were responsible for the spies and the meter to make them talk.

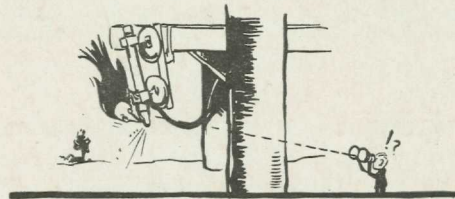


## KEYS, MEDALS, AND RESEARCH

The engineers and scientists of the General Electric Company have individually received many keys of honorary societies, medals, and other tokens. On February 1, however, General Electric received a medal to hang on its collective chest. The donor was the 100-year-old American Institute of the City of New York. And the citation read: "For pioneering in industrial research . . . for great achievements

in pure science that have furnished gainful occupation for thousands of workers and that have raised the standard of living, and increased health and happiness."

We mention this with pardonable pride, fully aware, however, that medals and honors are not the purpose of research. The real purpose is the discovery of fundamental facts at the border line of man's knowledge. The practical applications are worked out later. It was with this conviction that Dr. Willis R. Whitney, M.I.T., '90, Ph.D., Leipzig, '96, now vice-president of the company, in charge of research, organized the G-E Research Laboratory in 1900. In maintaining this tradition, he is ably assisted by Dr. W. D. Coolidge, M.I.T., '96, Ph.D., Leipzig, '99, the present director; Dr. Irving Langmuir, Columbia, '03, Ph.D., Göttingen, '06, last year's winner of the Nobel prize in chemistry, associate director; Dr. Saul Dushman, U. of Toronto, '04, Ph.D., '12; and Dr. A. W. Hull, Yale, '05, Ph.D., '09, assistant directors.



## SOUTHERN SLEUTHING

Not since Cock Robin have our feathered friends figured in a real good mystery, until the other day. And this was not so much a case of violence as of mistaken identity. Down in South Carolina, a power company had been having a little difficulty. It seems that the cutout fuses, which serve the same purpose on electric distribution lines that fuses do in our homes, were blowing out without apparent reason. Finally, an engineer with a Bird Club in his past unraveled the mystery. He saw a bird pecking at the soft fuse wire, apparently having a fine time. (It wasn't a G-E fuse.) Breathless investigation showed that other circuits had been opened in a like manner.

A G-E salesman on his next call recommended our new fuse links. Having copper in that part which the birds attacked, they proved to be im-peckable, and the trouble ceased. Now the birds are concentrating on worms, the power company on G-E fuse links, and everybody is happy.



96-32DH

# GENERAL ELECTRIC